	Application No.	Applicant(s)	
Notice of Allowability	10/665,302	HAYASAKA, SATOS	SHI
	Examiner	Art Unit	
	Rita Leykin	2837	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communication is sufficiently. This application is sufficiently application in the communication is sufficiently application.	this application. If not include nication will be mailed in due	ed course. <b>THIS</b>
1. This communication is responsive to			
2. The allowed claim(s) is/are <u>1-3</u> .			
3.   The drawings filed on 18 September 2003 are accepted by	the Examiner.		
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority una)  All b)  Some* c)  None of the: <ol> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* Certified copies not received:</li> </ul>	e been received. e been received in Application	ı No	tion from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the rec	quirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF
6. CORRECTED DRAWINGS ( as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the paper No./Mail Date	son's Patent Drawing Review . s Amendment / Comment or i .84(c)) should be written on the	n the Office action of advantage in the front (not the	back) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>			Note the
<ul> <li>Attachment(s)</li> <li>1. ☑ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 9/18/03)</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	6. Interview Sur Paper No./N 08), 7. Examiner's A	Mail Date  Amendment/Comment  Statement of Reasons for Allo	ŕ
	RITA LE PRIMARY E	EYKIN KAMINER J.G. Seykin	

## **REASONS FOR ALLOWANCE**

1. The following is an examiner's statement of reasons for allowance.

The prior art made of record in the attached form PTO-892 considered to be pertinent to the submitted application.

Rosenberg et al. US # 6,278,439 disclose for shaping a force signal for a force feedback device. Using a host processor, the force signal is formed from the source wave and the sets of control parameters specifying a direction of force signal. Wherein the force signal includes an impulse signal followed by a continual steady-state signal after an expiration of the settle time.

Rosenberg et al. US # 2001/0002126 disclose a force feedback interface device with a user operating a human/computer interface. Wherein a joystick or mouse controls the graphical object, such as cursor. And wherein a microprocessor from the host computer can be used to control forces on the physical object.

Martin et al. US # 6,067,077 teach a position sensing for force feedback devices.

Nishizaki et al. US # 6,079,513 teach a steering apparatus for a vehicle.

Wherein, driving a reaction force motor, on the basis of the calculated target value, controls reaction force of the steering operating means.

However, none of the prior art teaches or suggest in combination:

 Control means that is set so that said force in the opposite direction to the operating direction imparted from said electric actuator to the operation member increased at a start of operation of the operation member from 0 to a predetermined upper limit with an increase of the operating amount of the operation member on the basis of a predetermined function;

- Said force in the opposite direction to the operating direction imparted from said electric actuator to said operation member is kept at said upper limit value during the operation of the operation member;
- And said force in the opposite direction to the operating direction imparted from the electric actuator to the operation member decreases at a finish of the operation of said operating member from the upper limit value to 0 with the increase of the operating amount of the operation member in opposite direction to the operating direction of the operating member on the basis of the predetermined function.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rita Leykin whose telephone number is (571)272-2066. The examiner can normally be reached on Monday-Friday 8:30-6:00.

Application/Control Number: 10/665,302 Page 4

Art Unit: 2837

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Martin can be reached on (571)272-2107. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rita Leykin Primary Examiner Art Unit 2837

Rita Leguin

R.L.